

The System is Greater than the Sum of the Parts

Using WSG plants to create a more resilient and sustainable grazing program!

Presented by:

Drexel Atkisson, Area Soil Health Specialist USDA-NRCS Springfield, Missouri 417-831-5246 Ext 6
Drexel.Atkisson@mo.usda.gov



Systems Approach to Creating Resilience and Sustainability

Using WSG plants to create a more resilient and sustainable grazing program!



Aristotle

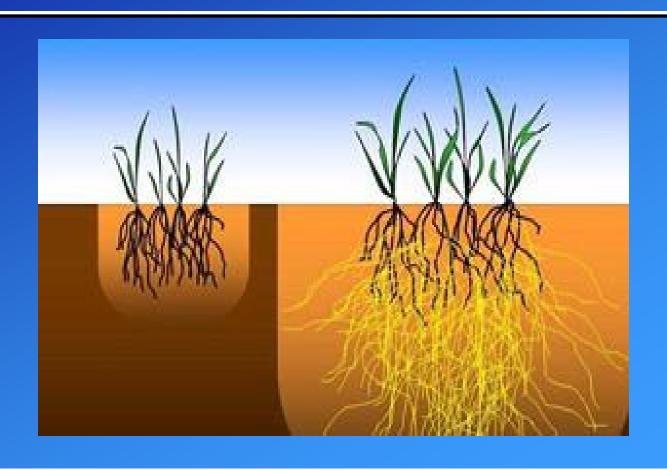
"The whole is greater than the sum of the parts"

Synergy

A system will outperform an unmanaged monoculture

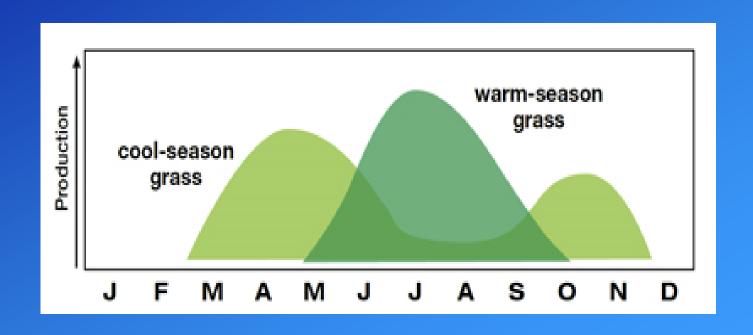


Cool Season vs Warm Season





Growing Season



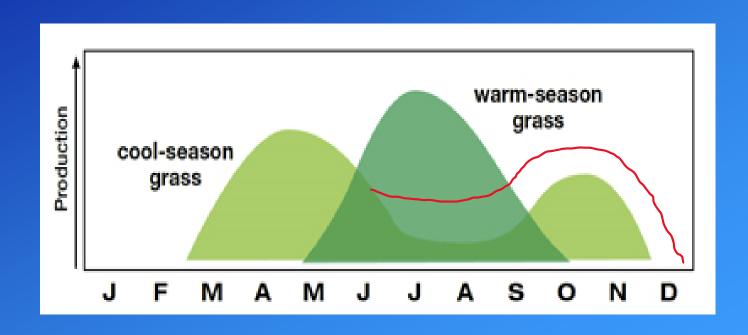


Grazing native warm-season grass until September allows for more rest during summer and causes an excited growth pattern in the fall for fescue.

This, in turn, makes it easier to stockpile forage!



Growing Season





Brown grazing natives brings an energy component to stockpiled strip grazed fescue.

This will further extend grazing days



Continuous Grazed 100 acres fescue 3000 lbs production per acre per year 75% utilization 365 day need of 1350lbs animal

16 animals



Managed Grazed 100 acres fescue 6000 lbs production per acre per year 65% utilization 365 day need of 1350lbs animal

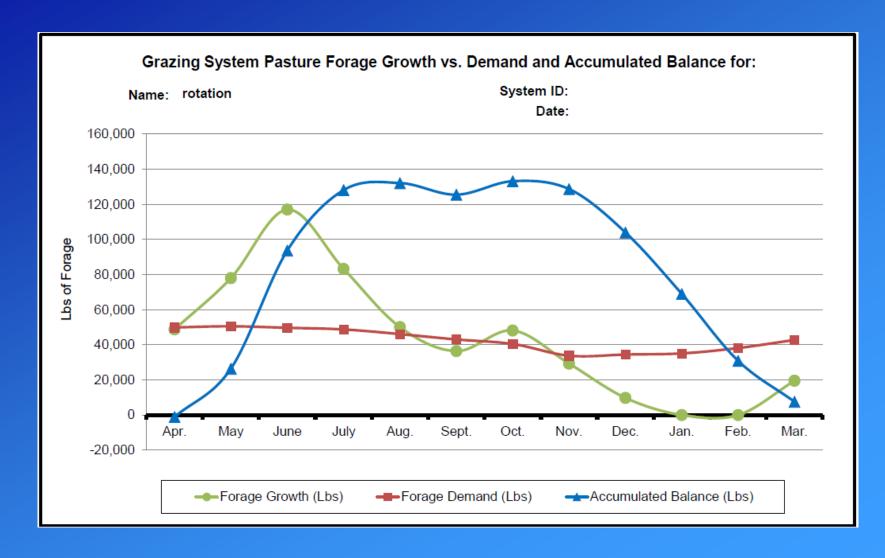
29 animals



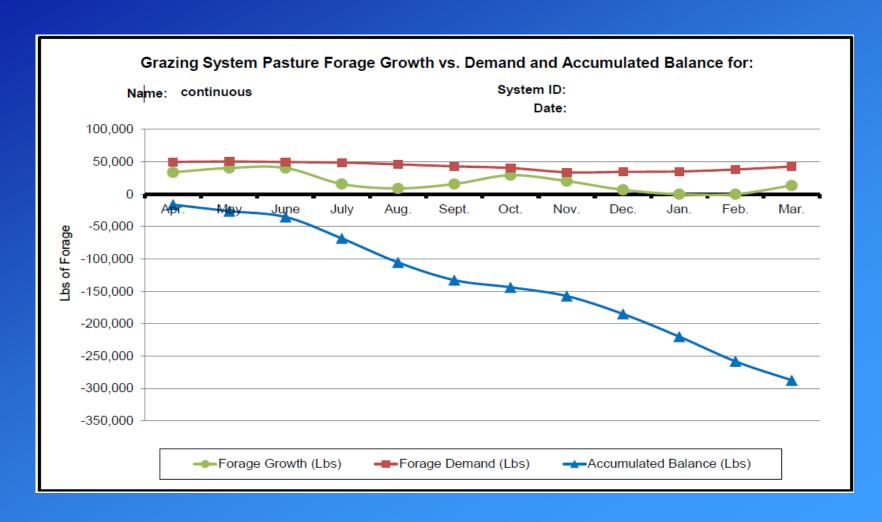
Managed Grazed 100 acres fescue/WSG 8000 lbs production per acre per year 2/3 acres 10,000 lbs production per acre per year 1/3 acres 65% utilization 365 day need of 1350lbs animal

40 animals











It is **NOT** a SYSTEM

Continuous Grazed 100 acres fescue

3000 lbs production per acre per year

75% utilization

365 day need of 1350 lbs animal

Does not mean we are not supporting 40 animals



What our beef industry was built on

Cheap Land

Cheap Feed

Cheap Fuel

Cheap Fertilizer

Doing the same thing the same way and expecting a different result







CSG

Calves on Fescue/Clover

In 6/23/2021 Avg 546 lbs
Out 7/17/2021 Avg 560 lbs
.6 pounds ADG







WSG The Good

Grows when I need it the most

Provides a longer rest period to the rest of the farm

Increased nutrition, better gains, better reconditioning

Increased conception rates

Less vet and mineral needs

Resilience

Sustainability



WSG

Calves on Big Bluestem, Indian Grass, Little Bluestem, Switchgrass and fescue.

Calves in 6/23/2021 480 Avg

Calves out 7/17/2021 523 Avg

1.79 lbs ADG



WSG

Calves on Big Bluestem, Indian Grass, Little Bluestem, Switchgrass, NO fescue.

Calves in 6/18/2022 513 Avg

Calves out 8/10/2022 687 Avg

3.34 lbs ADG





July 5, 2022 D3 Drought



USDA EQUAL OPPORTUNITY STATEMENT

The U.S. Department of Agriculture (USDA) prohibits discrimation in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, 1400 Independence Avenue, SW, Washington, DC 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.